

- 10) For some real number t , the first 3 terms of an arithmetic sequence are $3t$, $4t + 2$, and $7t - 4$. What is the numerical value of the 4th term?
- a) 15
 - b) 19
 - c) 26
 - d) 30
 - e) 36
- 11) In a group of 10 people, 70% take vitamins. If you randomly choose 2 of them, what is the probability neither person selected takes vitamins?
- a) .07
 - b) .09
 - c) .30
 - d) .47
 - e) .49
- 12) If $2^{x+1} = 8^{x-3}$, then x is
- a) 2
 - b) 3
 - c) 4
 - d) 5
 - e) 6
- 13) A \$500 investment account decreases 10% the first year. Then, in year 2, the account balance increases 10%. How much is in the account after year 2?
- a) 450
 - b) 495
 - c) 505
 - d) 510
 - e) 550
- 14) $2x^3 + 6x^2 + 4x = 0$ has the following solution set:
- a) $\{1, 2\}$
 - b) $\{-1, -2\}$
 - c) $\{1, -2\}$
 - d) $\{-2, -1, 0\}$
 - e) $\{0, 1, 2\}$